

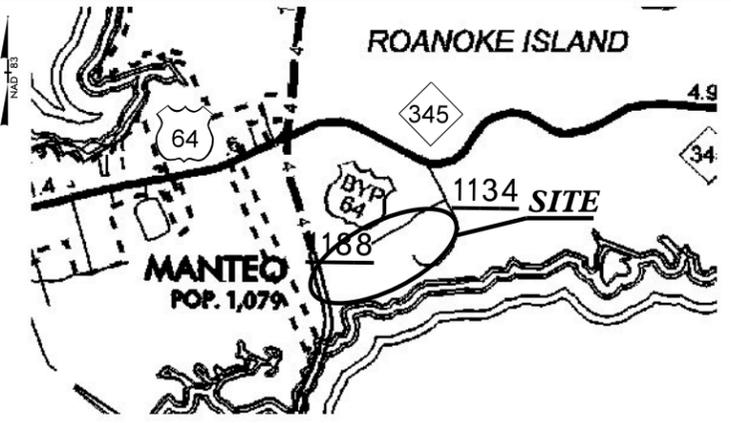
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44226	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44226		PE, CONST	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

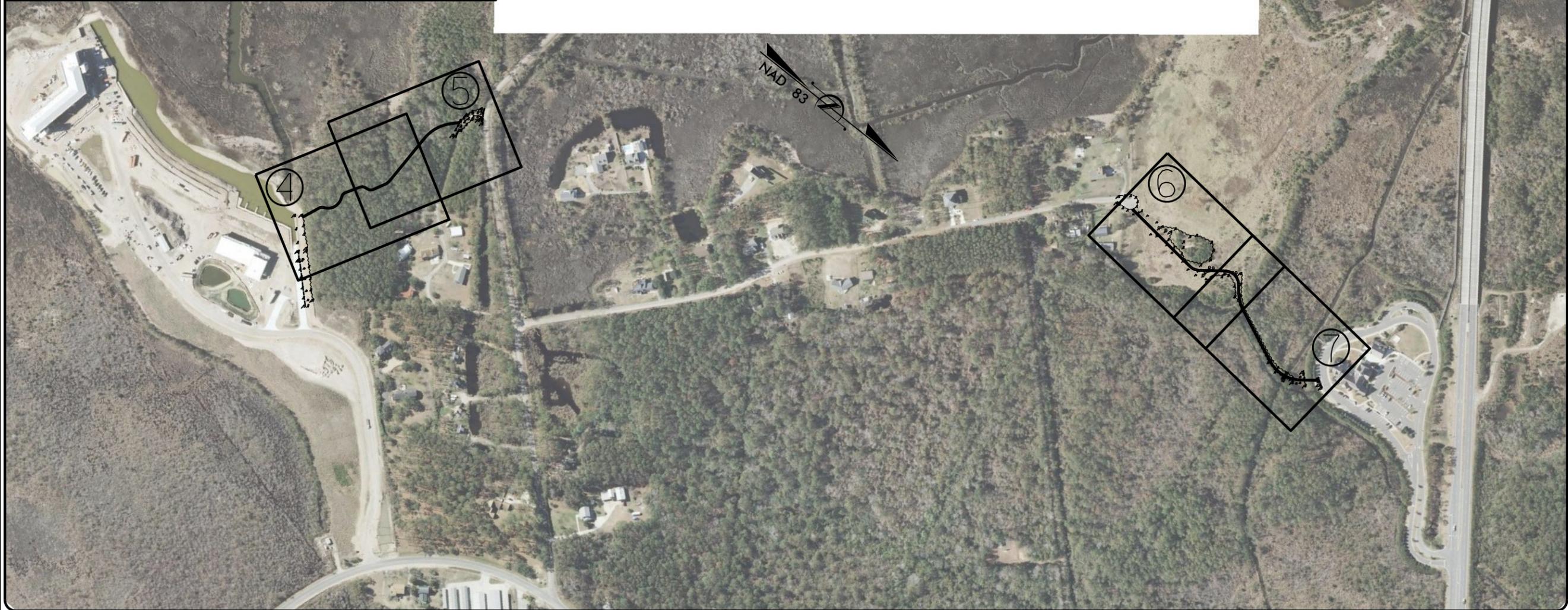
DARE COUNTY

LOCATION: SOUTH OF US 64 REST AREA
MANTEO, ROANOKE ISLAND

TYPE OF WORK: STONE WALKWAY CONSTRUCTION &
ELEVATED WOODEN WALKWAY CONSTRUCTION



VICINITY MAP



WBS ELEMENT: 44226

CONTRACT: DA00309

NTS

PROJECT LENGTH

LENGTH OF STONE WALKWAY -L1- = 594 LF
LENGTH OF STONE WALKWAY -L2- = 821 LF
TOTAL LENGTH OF STONE WALKWAY = 1,415 LF

LENGTH OF ELEVATED WOODEN WALKWAY -L1- = 133 LF
LENGTH OF ELEVATED WOODEN WALKWAY -L2- = 190 LF
TOTAL LENGTH OF ELEVATED WOODEN WALKWAY = 323 LF

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton, NC 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W. B. HOBBS, PE
DIVISION PROJECT MANAGER

CHRIS SLACHTA
DIVISION PROPOSALS ENGINEER

ROADWAY DESIGN ENGINEER

S. P. FENWICK, PLS



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stfenwick AT DICAD29366

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS AND STRUCTURE DETAILS
3	SUMMARY OF QUANTITIES
4 THRU 9	PLAN AND PROFILE SHEETS
EC-1	EROSION CONTROL TITLE SHEET
EC-3 THRU EC-7	EROSION CONTROL PLANS

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

GRADING: THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUBSURFACE PLANS: NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

CURB RAMPS: CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
DIVISION 8 - INCIDENTALS	
848.01	Concrete Sidewalk
848.05	Curb Ramp - Proposed Curb & Gutter
848.06	Curb Ramp - Existing Curb & Gutter

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	✕
Property Monument	□ ECM
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- M.B.
Proposed Wetland Boundary	----- M.B.
Existing Endangered Animal Boundary	----- E.A.B.
Existing Endangered Plant Boundary	----- E.P.B.
Existing Historic Property Boundary	----- H.P.B.
Known Contamination Area: Soil	-----
Potential Contamination Area: Soil	-----
Known Contamination Area: Water	-----
Potential Contamination Area: Water	-----
Contaminated Site: Known or Potential	☠ ☡

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	↑
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○
Proposed Right of Way Line with Concrete or Granite R/W Marker	△
Proposed Control of Access Line with Concrete C/A Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	----- CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	☼
Single Shrub	☼
Hedge	-----
Woods Line	-----

Orchard	☼ ☼ ☼ ☼
Vineyard	----- Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	⊕
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	⊕
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	⊕
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

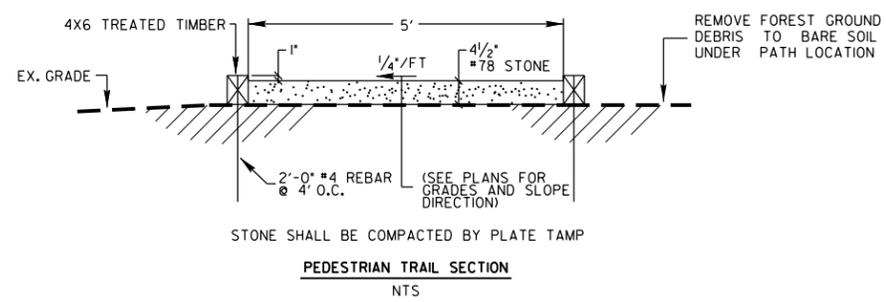
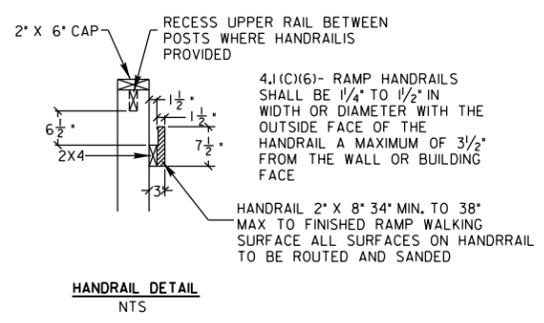
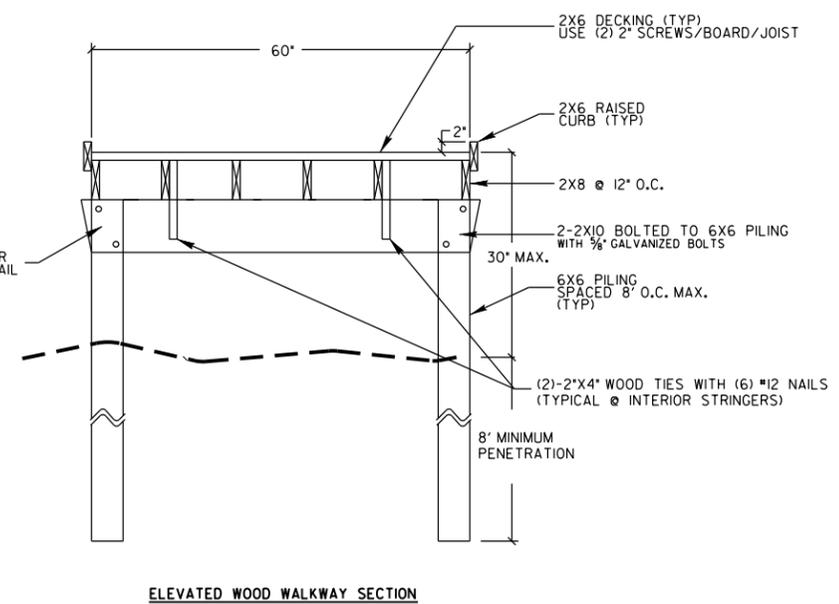
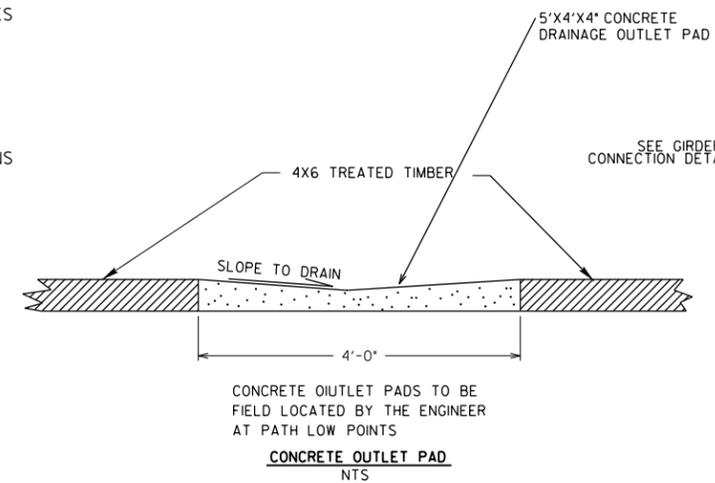
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

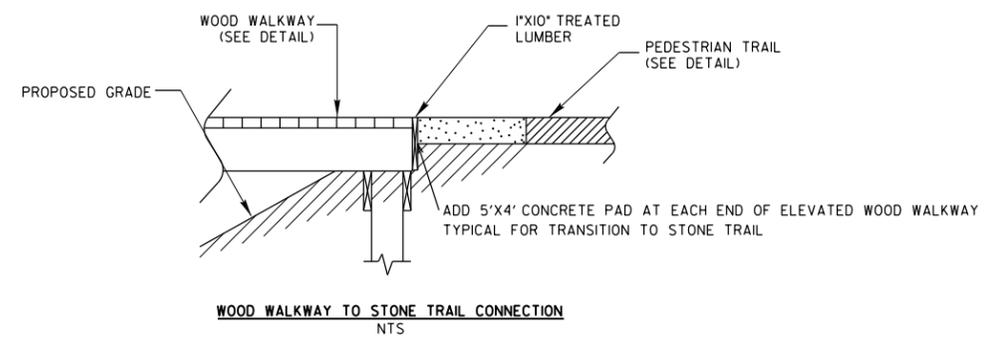
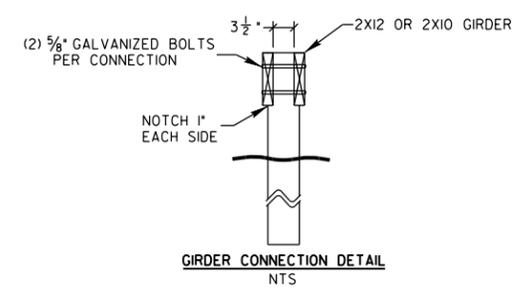
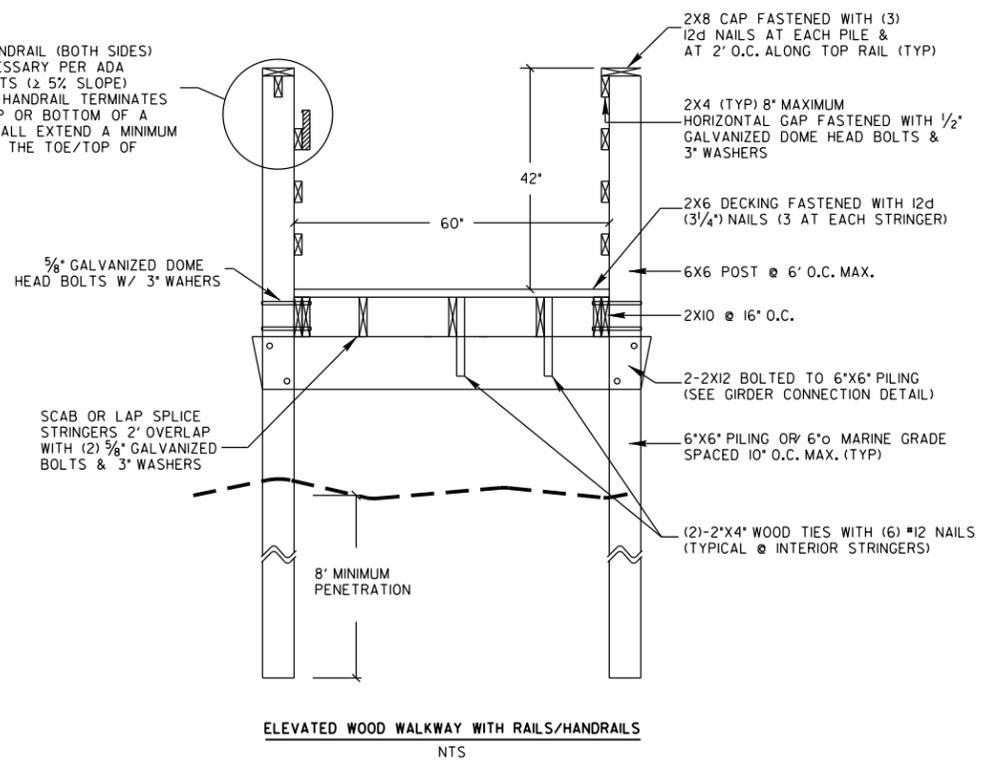
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- TUL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

ELEVATED WOOD WALKWAY NOTES:

- IN CASE OF DISCREPANCY IN DIMENSIONS OR DETAILS, BETWEEN MANUFACTURER AND STRUCTURAL DRAWINGS NOT AFFECTING STRENGTH, THE MANUFACTURERS PLANS SHALL GOVERN. FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE MANUFACTURERS PLANS.
- WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
- ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES AND SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- THE DIMENSIONS SHOWN WITH A SUFFIX " " ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE FABRICATION.
- IF THE CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED IN THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- LUMBER SHALL BE RATED (AWPA STANDARDS) AS FOLLOWS:
 - PILINGS:**
SET OUTSIDE OF TIDE ZONES: UC-4C
SET IN SALT OR BRACKISH WATER AND TIDE ZONES: UC-5B
 - GIRDERS:**
WITHIN SPLASH PRONE AREAS IN SALT OR BRACKISH WATER INSIDE TIDE ZONES: UC-5B
OTHER: UC-4B
 - STRINGERS/JOISTS/TIES:**
GROUND CONTACT OR SPLASH ZONE: UC-4B
OTHER: UC-3B
 - DECKING AND HANDRAILS:**
GROUND CONTACT OR SPLASH ZONE: UC-4B
OTHER: UC-3B
- ALL BOLTS TO BE HOT DIP GALVANIZED, ALL FASTENERS TO BE STAINLESS STEEL OR TREATED FOR EXTERIOR EXPOSURE AND USE.



PROVIDE HANDRAIL (BOTH SIDES) WHERE NECESSARY PER ADA REQUIREMENTS (2 5% SLOPE) WHERE THE HANDRAIL TERMINATES AT THE TOP OR BOTTOM OF A RAMP, IT SHALL EXTEND A MINIMUM OF 12" PAST THE TOE/TOP OF THE RAMP.



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PROJECT NO.	SHEET NO.
44226	3

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	CLEARING & GRUBBING .. ACRE(S) LS	GRADING LS	REMOVAL OF EXISTING CONCRETE PAVEMENT SY	5' X 4' X 4" CONCRETE DRAINAGE OUTLET PAD EA	TRAIL CONST LF	ELEVATED WALKWAY CONST LF	ELEVATED WALKWAY CONST NO RAILS LF	CONCRETE CURB RAMPS EA	TEMPORARY SILT FENCE LF	SEEDING & MULCHING ACR	
44226	Dare	1	1	STONE TRAIL CONSTRUCTION AND ELEVATED WOODEN TRAIL	1	2		NO	NO	0.329	10												
TOTAL FOR MAP NO. 1																							
TOTAL FOR PROJ NO. 44226												1	1	1	10	8	1,410	195	133	1	100	0.6	

ALIGNMENT -LI-

PI Sta 12+97.76
 $\Delta = 51^{\circ} 58' 13.4''$ (LT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 18.14'$
 $T = 9.75'$
 $R = 20.00'$

PI Sta 13+66.02
 $\Delta = 26^{\circ} 55' 27.7''$ (LT)
 $D = 114^{\circ} 35' 29.6''$
 $L = 23.50'$
 $T = 11.97'$
 $R = 50.00'$

PI Sta 11+37.86
 $\Delta = 83^{\circ} 01' 13.4''$ (LT)
 $D = 114^{\circ} 35' 29.6''$
 $L = 72.45'$
 $T = 44.25'$
 $R = 50.00'$

PI Sta 10+80.14
 $\Delta = 42^{\circ} 43' 16.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 14.91'$
 $T = 7.82'$
 $R = 20.00'$

PI Sta 11+89.07
 $\Delta = 48^{\circ} 34' 17.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 16.95'$
 $T = 9.02'$
 $R = 20.00'$

PI Sta 12+64.61
 $\Delta = 48^{\circ} 53' 03.1''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 17.06'$
 $T = 9.09'$
 $R = 20.00'$

BEGIN ELEVATED WOODEN WALKWAY STA. 13+22.00
 30" ABOVE CREEK NORMAL WATER ELEVATION

UNC COASTAL STUDIES INSTITUTE

01

POT Sta. 10+00.00

PC Sta. 10+72.32

PT Sta. 11+80.05
 PT Sta. 11+66.05

PT Sta. 11+97.00

PC Sta. 12+55.52

PT Sta. 13+06.15

PC Sta. 13+54.05

STA. 14+00.00

PT Sta. 13+77.55
 SEE SHEET 5

LEGEND

- STONE PATH
- ELEVATED WOODEN WALKWAY

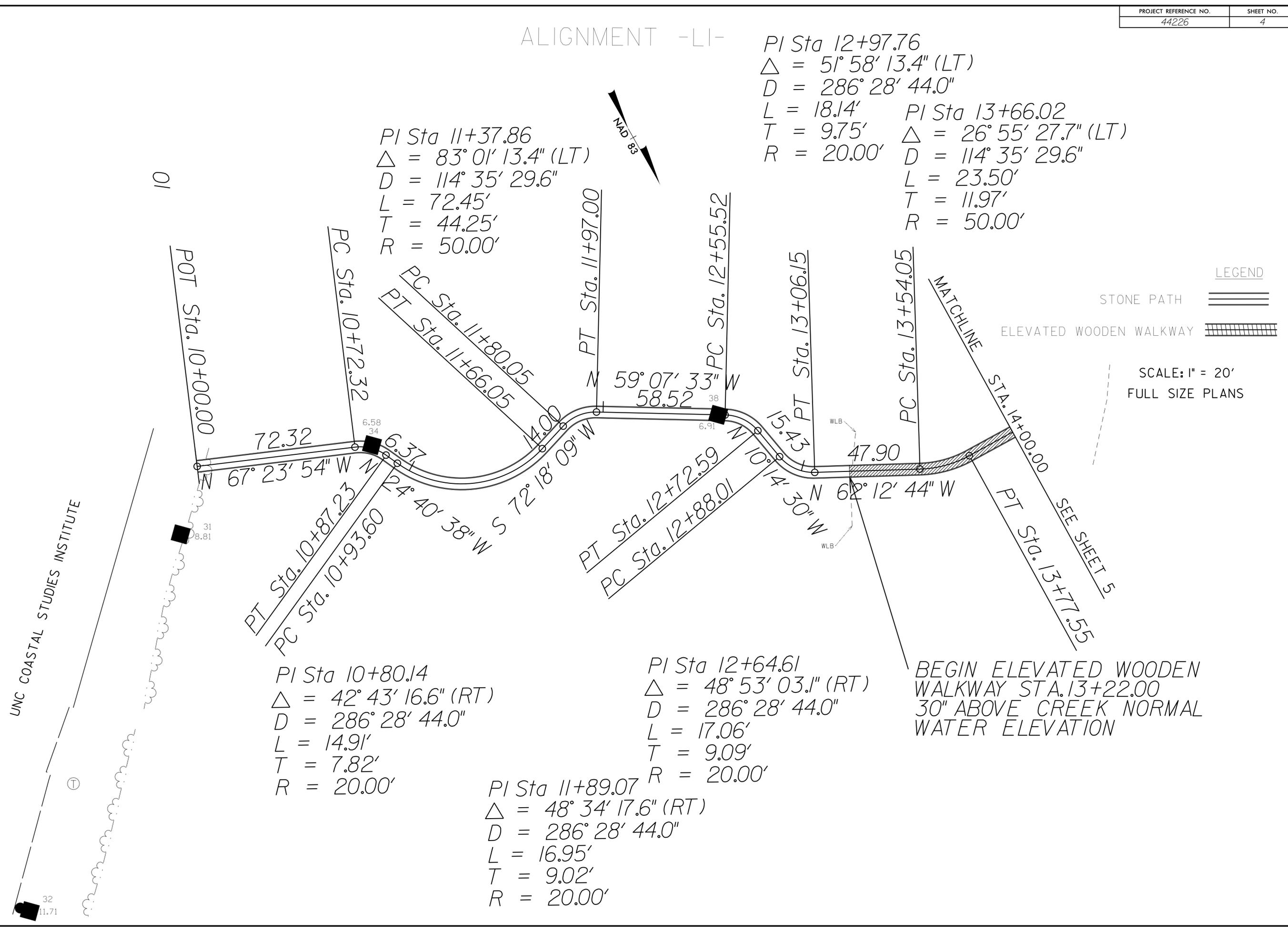
SCALE: 1" = 20'
 FULL SIZE PLANS

REVISIONS

8/17/99

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32
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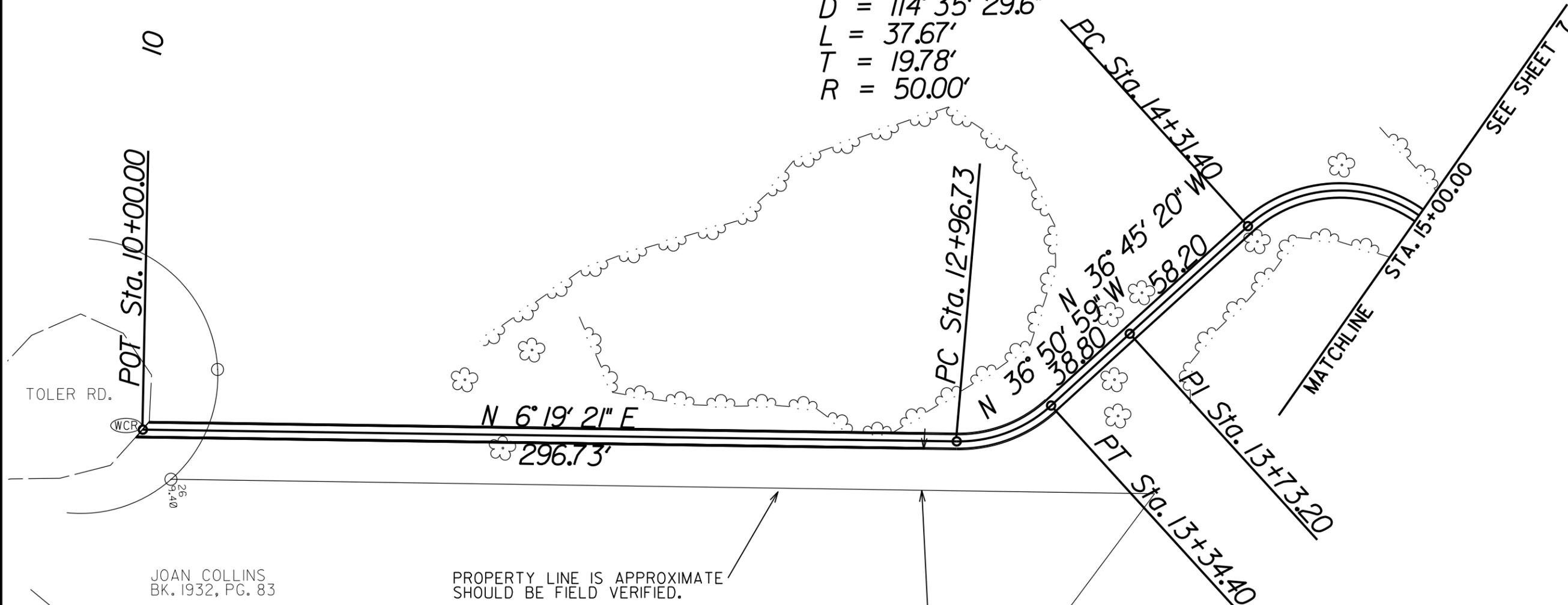


ALIGNMENT -L2-



PI Sta 13+16.52
 $\Delta = 43^\circ 10' 20''$ (LT)
 $D = 114^\circ 35' 29.6''$
 $L = 37.67'$
 $T = 19.78'$
 $R = 50.00'$

8/17/99
 REVISIONS
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JOAN COLLINS
BK. 1932, PG. 83

PROPERTY LINE IS APPROXIMATE
SHOULD BE FIELD VERIFIED.

JOAN COLLINS
BK. 1932, PG. 83

KEEP EDGE OF TRAIL AT
MINIMUM 15' OFF PROPERTY LINE

LEGEND

STONE PATH

ELEVATED WOODEN WALKWAY

SCALE: 1" = 40'

PI Sta 14+79.24
 $\Delta = 87^\circ 28' 23.4''$ (RT)
 $D = 114^\circ 35' 29.6''$
 $L = 76.33'$
 $T = 47.84'$
 $R = 50.00'$

ALIGNMENT -L2-



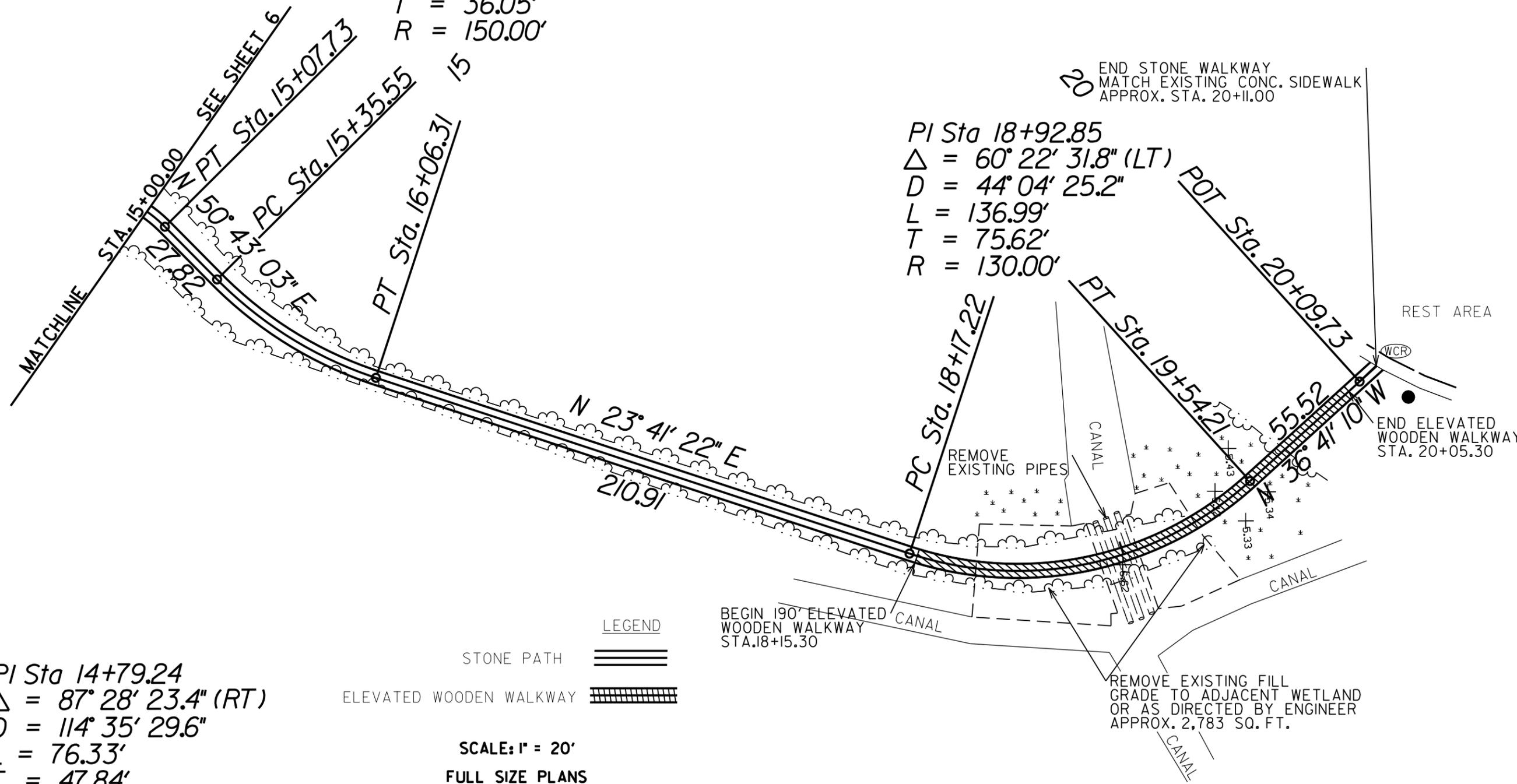
PI Sta 15+71.60
 $\Delta = 27^\circ 01' 41.2''$ (LT)
 $D = 38^\circ 11' 49.9''$
 $L = 70.76'$
 $T = 36.05'$
 $R = 150.00'$

PI Sta 18+92.85
 $\Delta = 60^\circ 22' 31.8''$ (LT)
 $D = 44^\circ 04' 25.2''$
 $L = 136.99'$
 $T = 75.62'$
 $R = 130.00'$

PI Sta 14+79.24
 $\Delta = 87^\circ 28' 23.4''$ (RT)
 $D = 114^\circ 35' 29.6''$
 $L = 76.33'$
 $T = 47.84'$
 $R = 50.00'$

LEGEND
 STONE PATH
 ELEVATED WOODEN WALKWAY

SCALE: 1" = 20'
FULL SIZE PLANS



REVISIONS

8/17/99
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 10'

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	44226	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44226		PE, CONST	

EROSION AND SEDIMENT CONTROL MEASURES

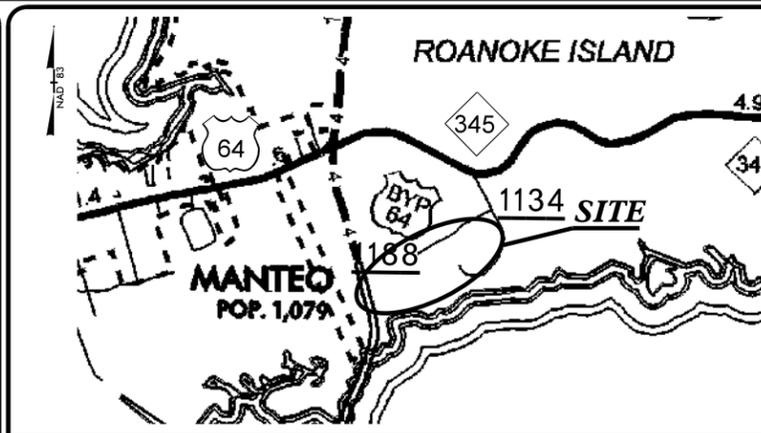
Sta. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	---
1605.01	Temporary Silt Fence	---
1606.01	Special Sediment Control Fence	---
1622.01	Temporary Berms and Slope Drains	---
1630.02	Silt Basin Type B	---
1633.01	Temporary Rock Silt Check Type-A	---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	---
1633.02	Temporary Rock Silt Check Type-B	---
	Wattle / Coir Fiber Wattle	---
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	---
1634.01	Temporary Rock Sediment Dam Type-A	---
1634.02	Temporary Rock Sediment Dam Type-B	---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	---
1630.04	Stilling Basin	---
1630.06	Special Stilling Basin	---
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	---
	Tiered Skimmer Basin	---
	Infiltration Basin	---

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

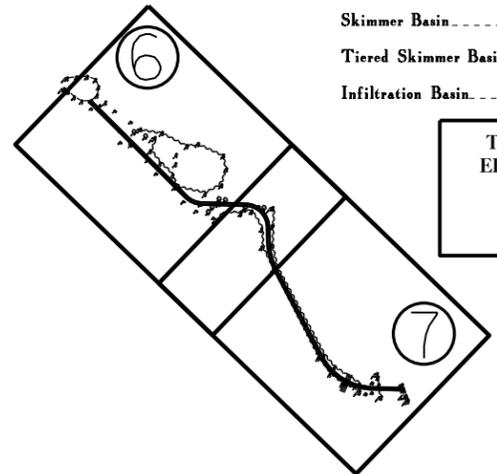
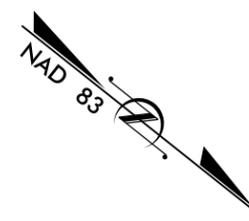
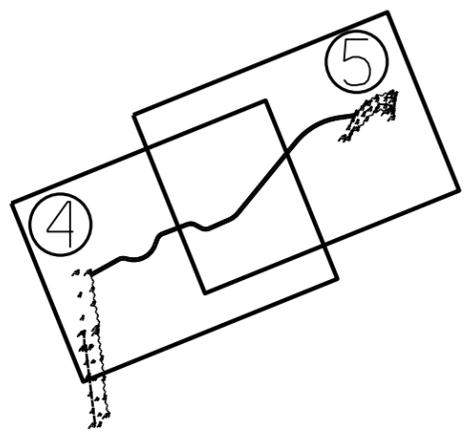
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

LOCATION: SOUTH OF US 64 REST AREA
MANTEO, ROANOKE ISLAND

TYPE OF WORK: STONE WALKWAY CONSTRUCTION &
ELEVATED WOODEN WALKWAY CONSTRUCTION



VICINITY MAP



WBS ELEMENT: 44226

CONTRACT: DA00309

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NTS

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton, NC 27932

Designed by:
SCOTT FENWICK 3795
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

EROSION CONTROL PLAN

ALIGNMENT -LI-

PI Sta 12+97.76
 $\Delta = 51^{\circ} 58' 13.4''$ (LT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 18.14'$
 $T = 9.75'$
 $R = 20.00'$

PI Sta 13+66.02
 $\Delta = 26^{\circ} 55' 27.7''$ (LT)
 $D = 114^{\circ} 35' 29.6''$
 $L = 23.50'$
 $T = 11.97'$
 $R = 50.00'$

PI Sta 11+37.86
 $\Delta = 83^{\circ} 01' 13.4''$ (LT)
 $D = 114^{\circ} 35' 29.6''$
 $L = 72.45'$
 $T = 44.25'$
 $R = 50.00'$

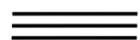
PI Sta 10+80.14
 $\Delta = 42^{\circ} 43' 16.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 14.91'$
 $T = 7.82'$
 $R = 20.00'$

PI Sta 12+64.61
 $\Delta = 48^{\circ} 53' 03.1''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 17.06'$
 $T = 9.09'$
 $R = 20.00'$

PI Sta 11+89.07
 $\Delta = 48^{\circ} 34' 17.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 16.95'$
 $T = 9.02'$
 $R = 20.00'$

BEGIN ELEVATED WOODEN WALKWAY STA. 13+22.00
 30" ABOVE CREEK NORMAL WATER ELEVATION

LEGEND

- STONE PATH 
- ELEVATED WOODEN WALKWAY 
- TEMPORARY SILT FENCE 

FULL SIZE PLANS

UNC COASTAL STUDIES INSTITUTE

10

POT Sta. 10+00.00

PC Sta. 10+72.32

PT Sta. 11+66.05

PT Sta. 11+97.00

PC Sta. 12+55.52

PT Sta. 13+06.15

PC Sta. 13+54.05

MATCHLINE STA. 14+00.00

PT Sta. 13+77.55

SEE SHEET 5

72.32

67° 23' 54" W

6.58
34

6.37

24° 40' 38" W

14.00

72° 18' 09" W

59° 07' 33" W
58.52

6.91

15.43

10° 14' 30" W

WLB

47.90

62° 12' 44" W

WLB

31
8.81

PT Sta. 10+87.23
PC Sta. 10+93.60

PI Sta 10+80.14
 $\Delta = 42^{\circ} 43' 16.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 14.91'$
 $T = 7.82'$
 $R = 20.00'$

PI Sta 12+64.61
 $\Delta = 48^{\circ} 53' 03.1''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 17.06'$
 $T = 9.09'$
 $R = 20.00'$

PI Sta 11+89.07
 $\Delta = 48^{\circ} 34' 17.6''$ (RT)
 $D = 286^{\circ} 28' 44.0''$
 $L = 16.95'$
 $T = 9.02'$
 $R = 20.00'$

BEGIN ELEVATED WOODEN WALKWAY STA. 13+22.00
 30" ABOVE CREEK NORMAL WATER ELEVATION

32
11.71

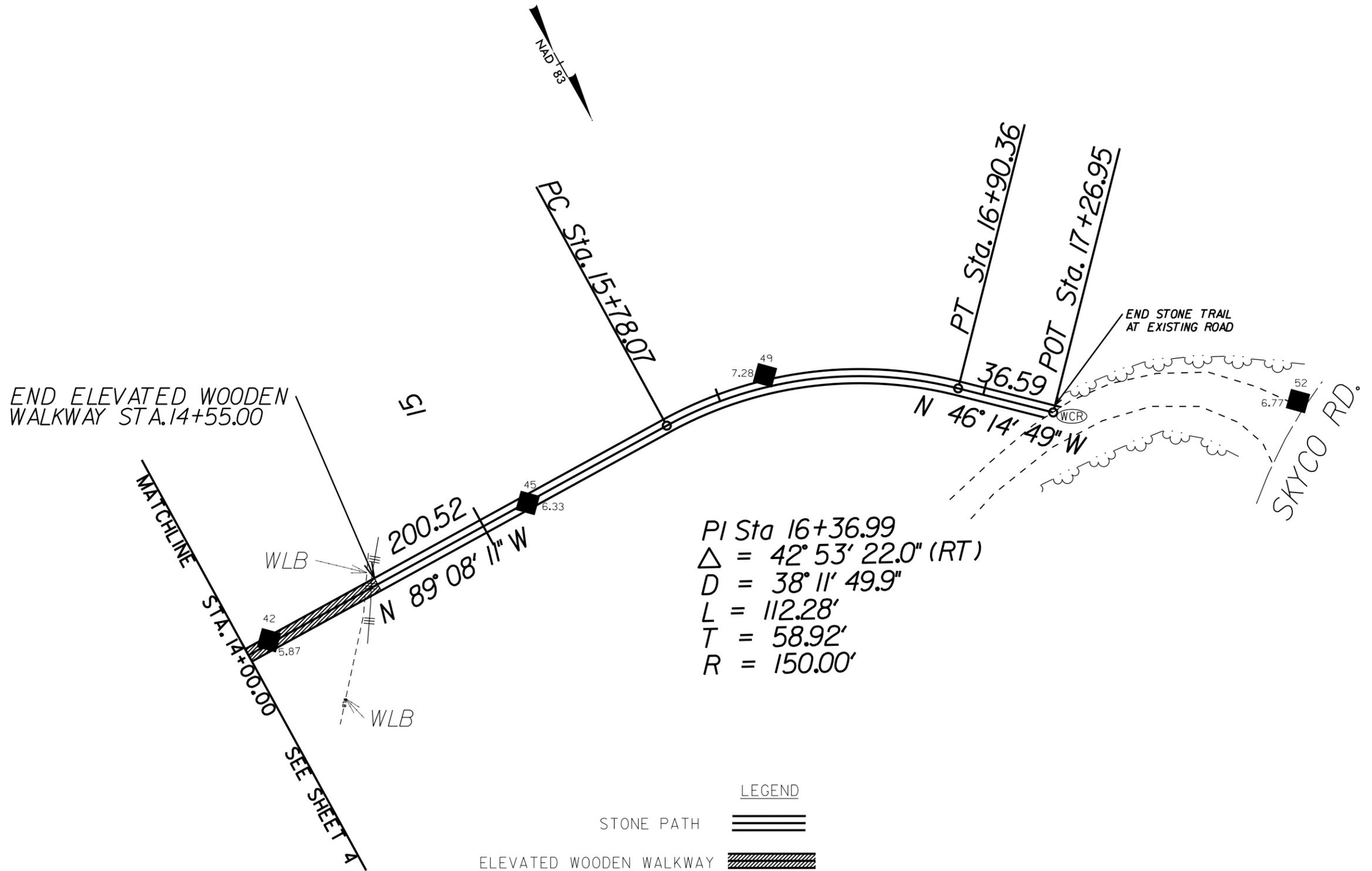
REVISIONS

8/17/99

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EROSION CONTROL PLAN

ALIGNMENT -LI-



LEGEND

STONE PATH	≡≡≡
ELEVATED WOODEN WALKWAY	▨▨▨
TEMPORARY SILT FENCE	— — — — —

SCALE: 1" = 20'
FULL SIZE PLANS

REVISIONS

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 8/17/99

EROSION CONTROL PLAN

ALIGNMENT -L2-

PI Sta 15+72.69
 $\Delta = 27^\circ 01' 41.2''$ (LT)
 $D = 38^\circ 11' 49.9''$
 $L = 70.76'$
 $T = 36.05'$
 $R = 150.00'$



FLOATING TURBIDITY CURTAIN:

Description
 This work consists of the installation of a Floating Turbidity Curtain to deter silt suspension and movement of silt particles during construction. The floating turbidity curtain shall be constructed at locations as directed.

Materials
 The curtain material shall be made of a tightly woven nylon, plastic or other non-deteriorating material meeting the following specifications:

Property	Value
Grab tensile strength	*md-370 lbs *cd-250 lbs
Mullen burst strength	480 psi
Trapezoid tear strength	*md-100 lbs *cd-60 lbs
Apparent opening size	70 US standard sieve
Percent open area	4% permittivity 0.28 sec-1

*md - machine direction
 *cd - cross machine direction

In the event that more than one width of fabric is required, a 6" overlap of the material shall also be required.

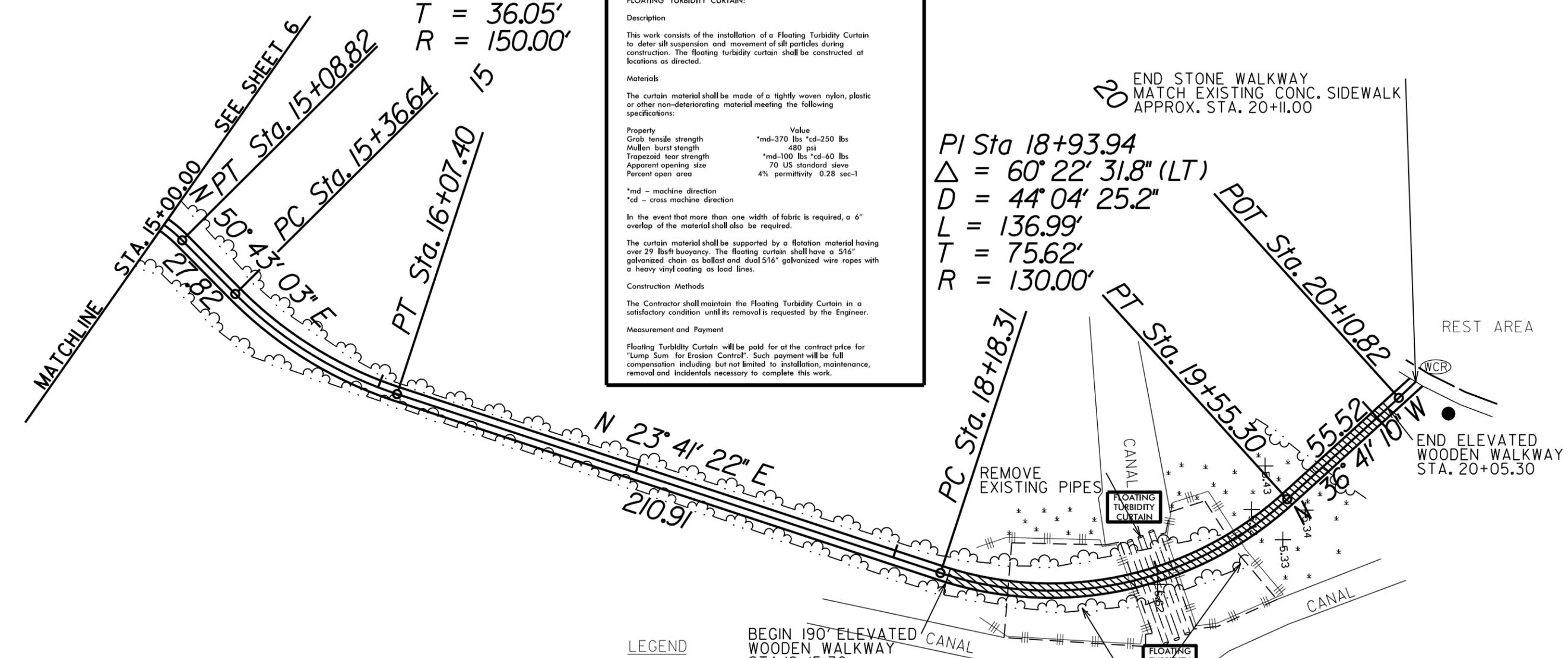
The curtain material shall be supported by a flotation material having over 29 lbsft buoyancy. The floating curtain shall have a 5/16" galvanized chain as ballast and dual 5/16" galvanized wire ropes with a heavy vinyl coating as load lines.

Construction Methods
 The Contractor shall maintain the Floating Turbidity Curtain in a satisfactory condition until its removal is requested by the Engineer.

Measurement and Payment
 Floating Turbidity Curtain will be paid for at the contract price for "Lump Sum for Erosion Control". Such payment will be full compensation including but not limited to installation, maintenance, removal and incidentals necessary to complete this work.

END STONE WALKWAY
 MATCH EXISTING CONC. SIDEWALK
 APPROX. STA. 20+11.00

PI Sta 18+93.94
 $\Delta = 60^\circ 22' 31.8''$ (LT)
 $D = 44^\circ 04' 25.2''$
 $L = 136.99'$
 $T = 75.62'$
 $R = 130.00'$



PI Sta 14+80.33
 $\Delta = 87^\circ 28' 23.4''$ (RT)
 $D = 114^\circ 35' 29.6''$
 $L = 76.33'$
 $T = 47.84'$
 $R = 50.00'$

- LEGEND**
- STONE PATH
 - ELEVATED WOODEN WALKWAY
 - TEMPORARY SILT FENCE
 - FLOATING TURBIDITY CURTAIN

BEGIN 190' ELEVATED WOODEN WALKWAY STA. 18+15.30

NOTE:
 TEMPORARY SILT FENCE SHALL BE INSTALLED A MINIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS

SCALE: 1" = 20'
 FULL SIZE PLANS

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 REVISIONS
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